

Hand polishing system developed for the watch industry, particularly for watch cases finish, and modified by HOROTEC® for the after sales service. These 2 versions tools are composed of a vice with 4 brass claws (inside tightening from ø 14 to 34 mm and from ø 25 to 50) mounted on ball bearings, allowing the POLISHING WITHOUT RISKING ANY FLATTENING on the item worked on (watch case, bezel, case back, ring, etc.). As soon as one comes in contact with the brush, the system starts turning at the same speed as the brush.



MSA	Model	Kg
23.501	Right turning Bobino MSA 23.501-A (clockwise), ø 14 to 34 mm.	0.780
23.504	Right turning Bobino MSA 23.504-A (anti-clockwise), ø 25 to 50 mm.	0.780

MSA	Model	Kg
23.502	Left turning Bobino MSA 23.501-E (clockwise), ø 14 to 34 mm.	0.780
23.505	Left turning Bobino MSA 23.504-E (anti-clockwise), ø 25 to 50 mm.	0.780

The claws adjustment is made screwing and unscrewing the central screw of the claws thanks to an Allen key. The back screw is the Bobino turning adjustment. It allows to completely stop the Bobino (if necessary) or, at the opposite, to have a free rotation. The underneath lever is for releasing the claws (used for series).



There is no more contact between the fingers and the item to polish.



In case of voluntary blocking, just hold the base of the red vice.



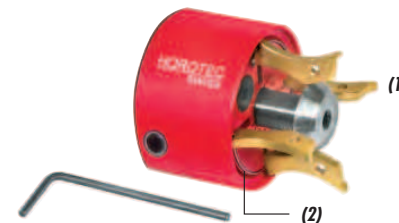
MSA	Model	Kg
23.501-C	Right-sided ball bearing handle only (thread ø 16 mm)	0.700

Delivered with 1 hexagonal key.



MSA	Model	Kg
23.501-B	Left-sided ball bearing handle only (thread ø 16 mm)	0.700

Delivered with 1 hexagonal key.



MSA	Model	Kg
23.501-A	Right-sided vice only (thread ø 16 mm)	0.080
23.501-E	Left-sided vice only (thread ø 16 mm)	"

Vice only (ø 14 to 34 mm) delivered with an Allen key for claws width adjustment and for fixing the vice on the Bobino.

Replacement parts for MSA 23.501 and 23.502 :

MSA	Items	Kg
23.500-A	Assortment of 4 brass claws (1)	0.010
23.501-G	Spring only (2)	0.001



MSA	Model	Kg
23.504-A	Right-sided vice only (thread ø 16 mm)	0.080
23.504-E	Left-sided vice only (thread ø 16 mm)	"

Vice only (ø 25 to 50 mm) delivered with an Allen key for claws width adjustment and for fixing the vice on the Bobino.

Replacement parts for MSA 23.504 and 23.505 :

MSA	Items	Kg
23.503-A	Assortment of 4 brass claws (1)	0.010
23.504-G	Spring only (2)	0.001



MSA	Reaming mm	Size mm	Kg
23.500	14	80 x 35	0.250

Polishing vice with 4 brass claws, tightening from 14 to 34 mm.

Manual use : the brass claws adjustment is made by clockwise turning the end cylinder ; the item to polish is hold from the inside. Used by handling the hexagonal vice during the polishing.

Use on polishing motor arbour : first fix the piece to be polished on the brass claws, then fix the vice on the polishing motor arbour and tighten it with 2 screws using the provided hexagonal key.

The end cylinder is reamed to about 14 mm, to fix the vice on the motor arbour. Optional reduction die is deliverable to fit the vice on 9 mm motor axle.

Replacement parts :

MSA	Items	Kg
23.500-09	Reduction die 9 mm	0.016
23.500-A	Assortment of 4 claws (1)	0.070



MSA	Reaming mm	Size mm	Kg
23.503	14	80 x 39	0.180

Polishing vice with 4 brass claws, tightening from 25 to 50 mm.

Manual use : the brass Claws adjustment is made by clockwise turning the end cylinder ; the item to polish is hold from the inside. Used by handling the hexagonal vice during the polishing.

Use on polishing motor arbour : first fix the piece to be polished on the brass Claws, then fix the vice on the polishing motor arbour and tighten it with 2 screws using the provided hexagonal key. The end cylinder is reamed to about 14 mm, to fix the vice on the motor arbour. Optional reduction die is deliverable to fit the vice on 9 mm motor axle.

Replacement parts :

MSA	Items	Kg
23.503-09	Reduction die 9 mm	0.016
23.503-A	Assortment of 4 claws (1)	0.070



MSA	Voltage	Size mm	Kg
23.160	220 V	440 x 350 x 450	26.000
23.160-110	110 V	"	"

UNISPEED professional polishing machine with one work station containing :

- 1 dust drawer
- 1 lamp
- 1 removable and detachable hood for polishing big pieces
- 2 speeds : 1.400 and 2.800 RPM
- motor power : 0.220 kW.

Replacement parts :

MSA	Items
23.008-B	Filter
23.008-D	Tapered spindle
23.008-N	Neon light
23.008-P	Millstone holder
23.160-A	Replacement filter



MSA	Voltage	Size mm	Kg
23.009	220 V	410 x 290 x 375	12.000
23.009-110	110 V	"	"

POLINI polishing machine for after sales service with 1 work station containing :

- 1 dust drawer
- 1 lamp
- 1 transparent hood (possible withdrawal for polishing big pieces)
- 1 speed : 2.800 RPM
- motor power : 0.140 kW.

Replacement parts :

MSA	Items
23.009-D	Tapered spindle
23.008-N	Neon light
23.009-A	Replacement filter

MSA	Voltage	Size mm	Kg
23.008	220 V	720 x 350 x 450	38.000
23.008-110	110 V	"	"

MULTISPEED polishing machine with 2 work stations containing :

- 2 polishing tapered spindles
- 2 separated motors for polishing and air extraction
- 2 dust drawers
- 2 removable and detachable hoods for polishing big pieces
- 2 lamps
- 2 speeds : 1.400 and 2.800 RPM
- motor power : 0.220 kW.

Replacement parts :

MSA	Items
23.008-B	Filter
23.008-D	Right-sided tapered spindle
23.008-G	Left-sided tapered spindle
23.008-N	Neon light
23.008-P	Millstone holder
23.160-A	Replacement filter



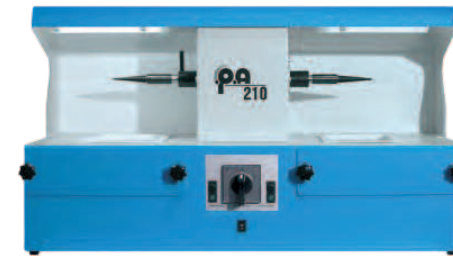
MSA	Voltage	Size mm	Kg
23.011	220 V	750 x 335 x 430	36.000

PA210 polishing machine with air extraction capacity of 2 x 500 m³/hour containing :

- 2 tapered spindles for polishing wheels ø 160 mm maximum
- 2 dust drawers
- 2 11 W lamps
- 2 speeds: 1.400 and 2.800 RPM
- motor power : 0.2/0.3 kW.

Replacement parts :

MSA	Items	Kg
23.011-D	Right-sided tapered spindle	0.070
23.011-G	Left-sided tapered spindle	0.070
23.011-F	Replacement filter	0.008



MSA	Voltage	Dimensions mm	Kg
23.010	220 V	455 x 335 x 430	26.000

PA012 polishing machine with air extraction capacity of 500 m³/hour containing :

- 1 right-sided conical axle for polishing wheel ø 160 mm maximum
- 1 dust drawer
- 1 11 W lamp
- 2 speeds : 1.400 and 2.800 RPM
- motor power : 0.2/0.3 kW.

Replacement parts :

MSA	Items	Kg
23.011-D	Tapered spindle	0.070
23.011-F	Replacement filter	0.008



MSA	Voltage	Size mm	Kg
23.150	220 V	550 x 230 x 330	25.5

SENIOR polishing machine with 1 work station containing :

- 1 dust drawer
- 1 vacuum hood with 1 6 W neon light
- 1 speed: 2.800 RPM
- air extraction capacity : 800 m³/hour
- motor power : 0.4 kW.

Replacement part :

MSA	Item
23.150-A	Replacement filter

